

FIG. 1

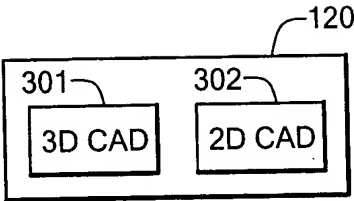


FIG. 3A

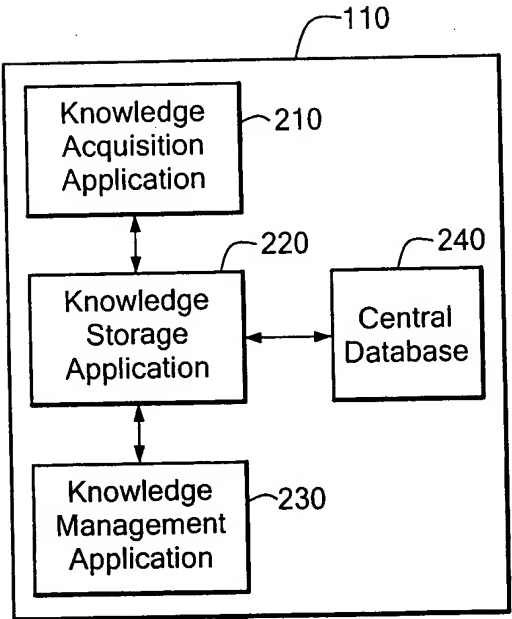


FIG. 2

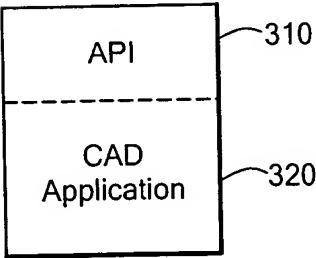


FIG. 3B

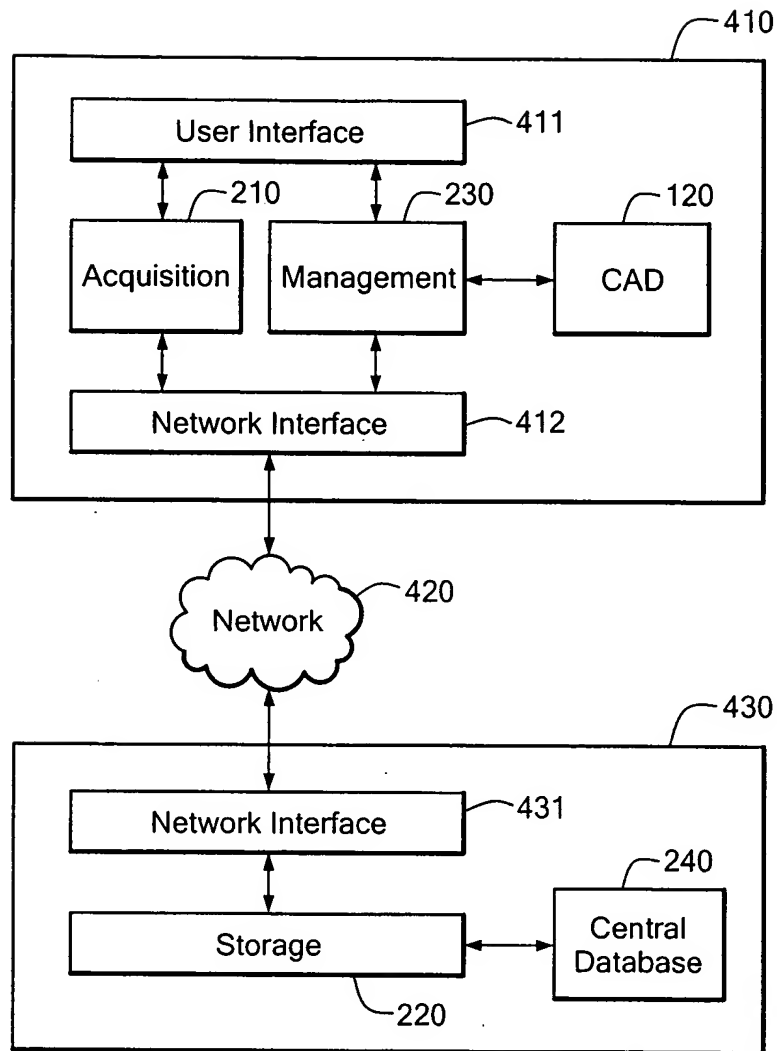


FIG. 4

RuleStream nAct Expert
File Edit View Help

Part Family - Tree

- BuildingServicesFan
 - FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

510

Display Name *
Mounting Assembly

System Name *
MountingAssembly

Subpart Type *
Static

Category *
General

Valid Part Families *
Mounting

531

Context
BuildingServicesFan

Optimal Part Family *

☐ User Edit ☐ Follow Part Number

result = "Mounting"

532

Quantity

Exists When *

Part Names *

When Changed *

Documentation

* Required

520

All Specs (Alphabetical)

- Density^L
- FanArea^L
- FanAssembly^L
- FanDiameter^L
- FanPressure^L
- FrequentStartStop^L
- HousingAssembly^L
- MotorAssembly^L
- MountingAssembly^L
- PartNumber^M
- SolidWorks^L
- SpecifiedSpeed^L
- SquareFlange^L
- VolumeFlowRate^L

500

540

530

FIG. 5

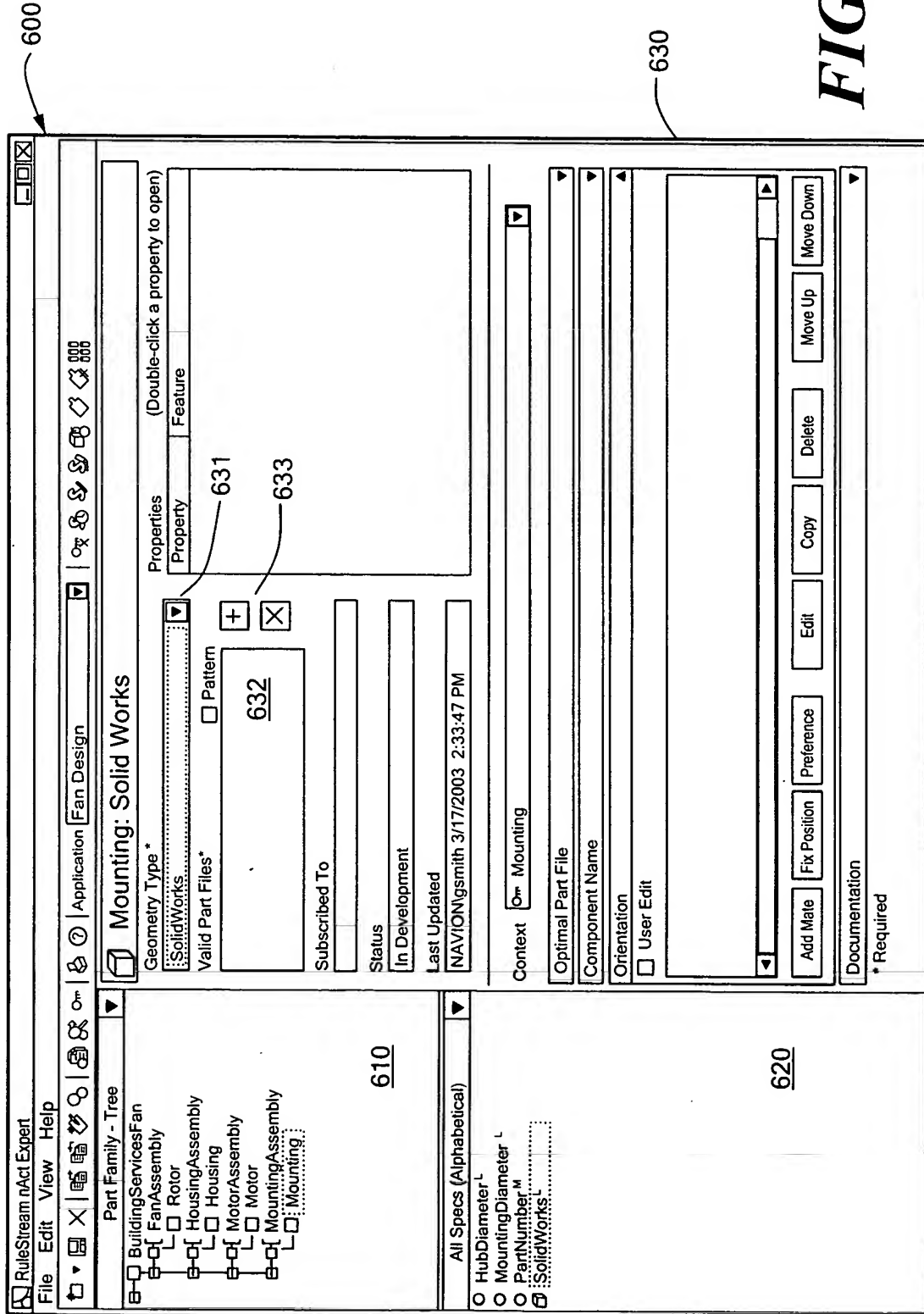


FIG. 6

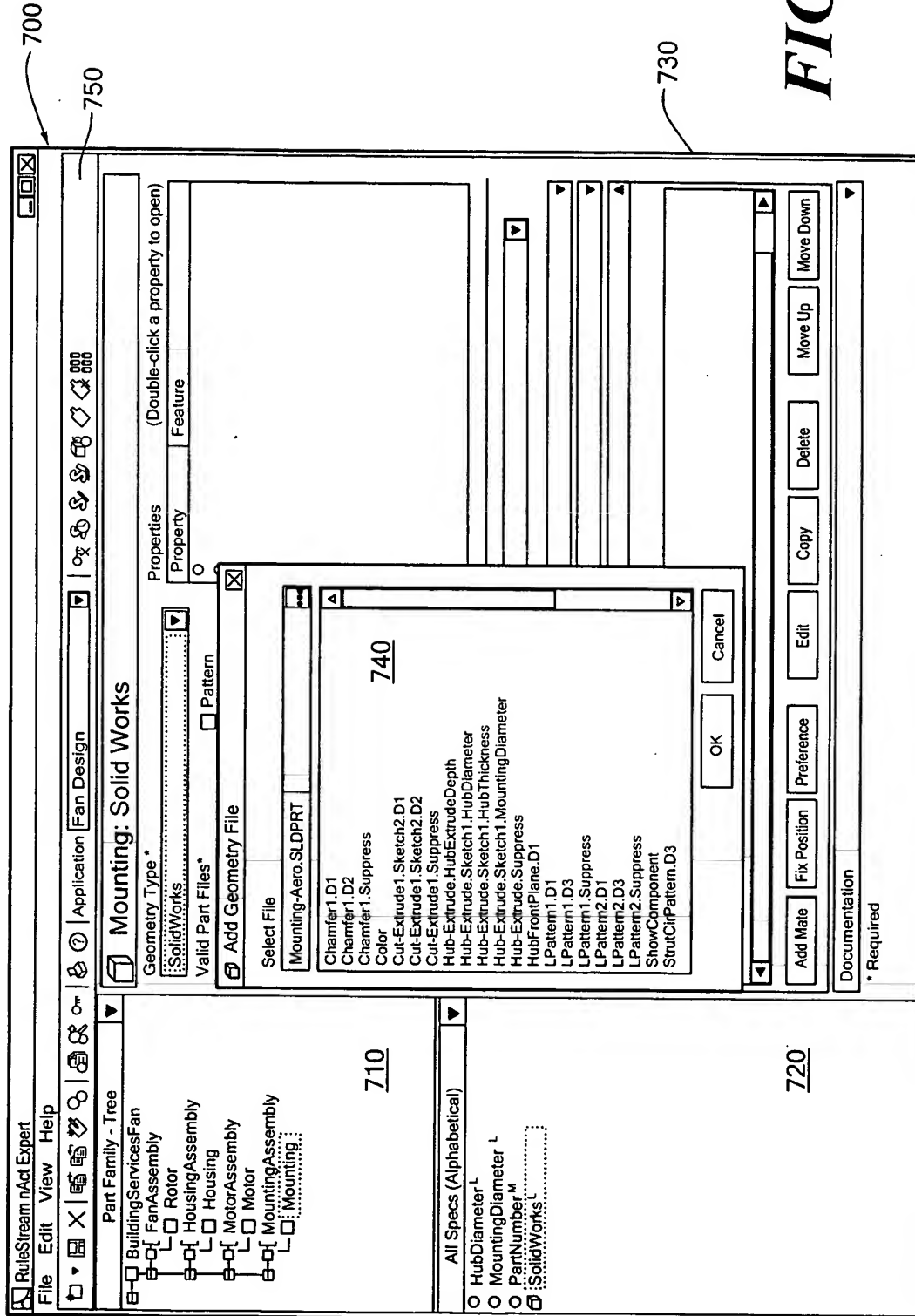


FIG. 7

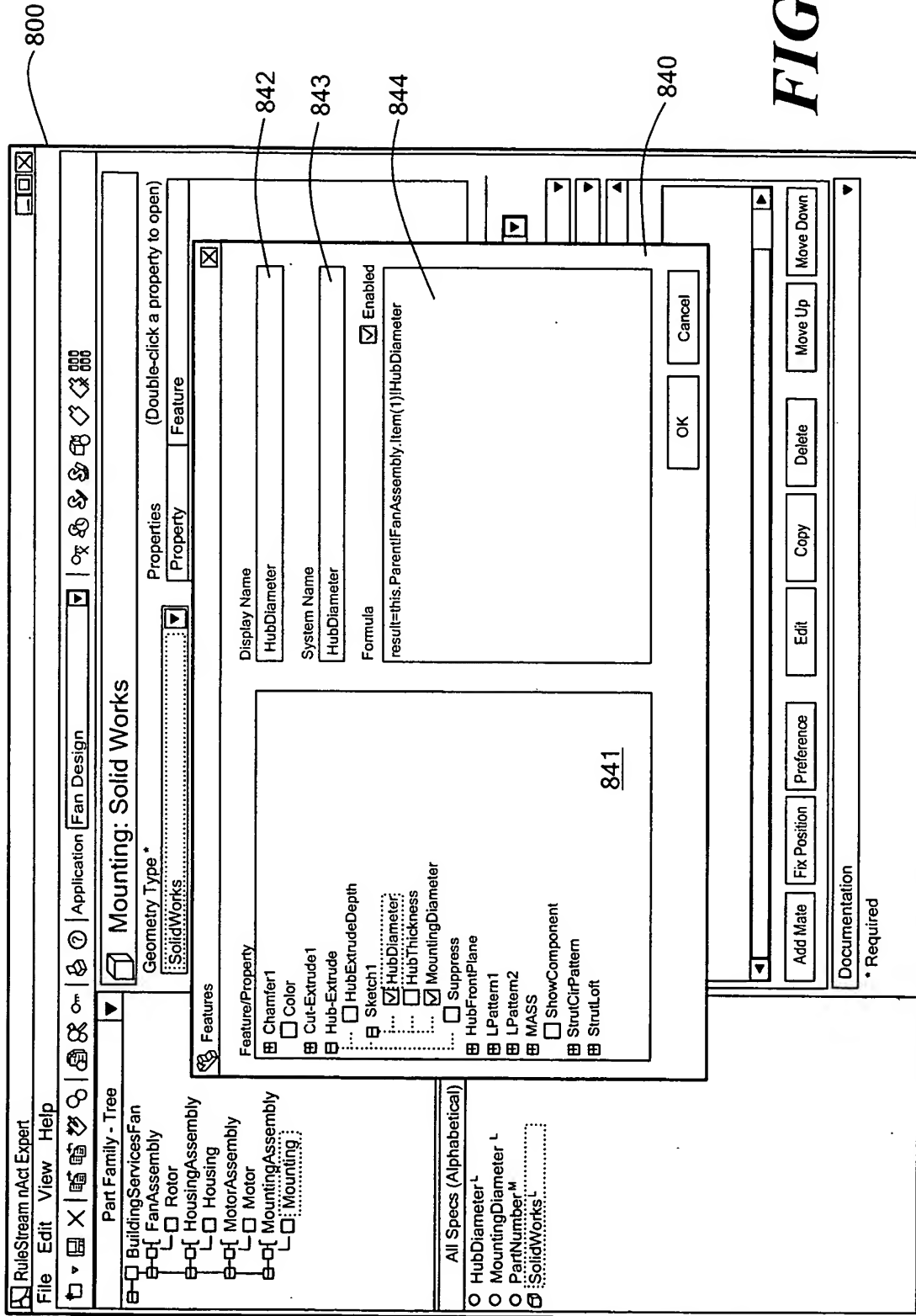


FIG. 8

RuleStream nAct Expert

File Edit View Help

Part Family - Tree

BuildingServicesFan

FanAssembly

Rotor

HousingAssembly

Housing

MotorAssembly

Motor

MountingAssembly

Mounting

Mounting: Solid Works

Geometry Type*
SolidWorks

Valid Part Files*
Mounting-Aero.SLDPRT

Pattern

+

X

Subscribed To

Status

In Development

Last Updated
NAVIONgsmith 3/17/2003 2:33:47 PM

Properties (Double-click a property to open)

Property | Feature

HubDiameter

Hub-Extrude.Sketch1.HubDiameter

MountingDiameter

Hub-Extrude.Sketch1.MountingDiameter

Context

Mounting

Optimal Part File

Component Name

Orientation

User Edit

Add Mate

Fix Position

Preference

Edit

Copy

Delete

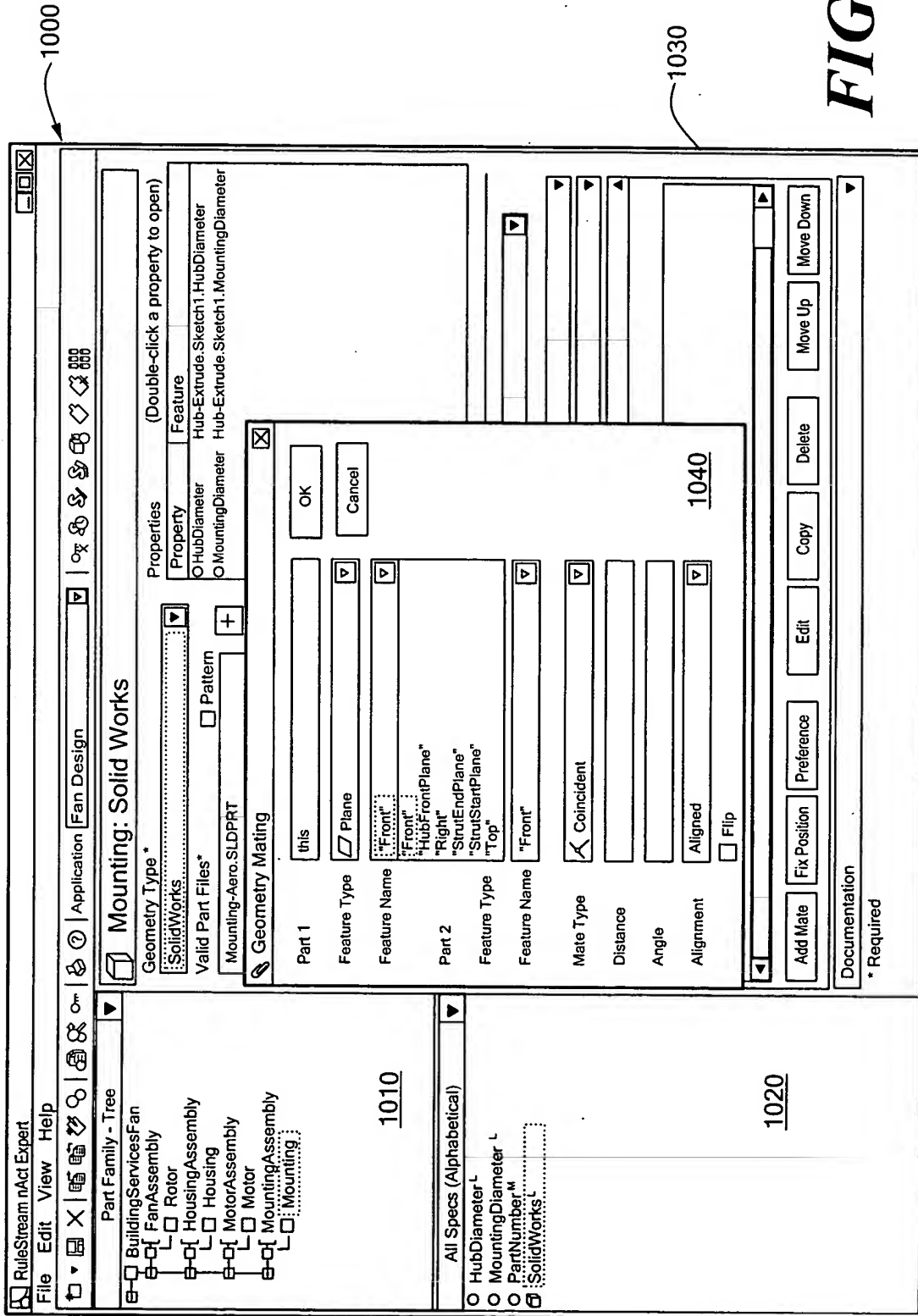
Move Up

Move Down

Documentation

* Required

FIG. 9



RuleStream nAct Expert

File Edit View Help

Part Family - Tree

- BuildingServicesFan
 - FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

Application: Fan Design

Mounting: Solid Works

Geometry Type *

SolidWorks

Valid Part Files *

Mounting-Aero.SLDPRT

Properties (Double-click a property to open)

Property	Feature
HubDiameter	Hub-Extrude.Sketch1.HubDiameter
MountingDiameter	Hub-Extrude.Sketch1.MountingDiameter

Subscribed To

Status

In Development

Last Updated

NAVIONGsmith 3/17/2003 2:33:47 PM

1100

Context: Mounting

Optimal Part File

Component Name

Orientation

☐ User Edit

AddMate this, "PLANE", "Front", this.parent!HousingAssembly(1), "PLANE", "Front", swMateAlignALIGNED, FALSE, AddMate this, "PLANE", "Right", this.parent!HousingAssembly(1), "PLANE", "Right", swMateAlignALIGNED, FALSE, AddMate this, "PLANE", "Top", this.parent!HousingAssembly(1), "PLANE", "Top", swMateAlignALIGNED, FALSE, 0.

1131

1130

1110

All Specs (Alphabetical)

- HubDiameter^L
- MountingDiameter^L
- PartNumber^M
- SolidWorks^L

1120

Add Mate Fix Position Preference Edit Delete Move Up Move Down

Documentation

* Required

FIG. 11

RulesStream nAct Expert
File Edit View Help

Part Family - Tree

- BuildingServicesFan
 - FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

1210

All Specs (Alphabetical)

- Density^L
- FanArea^L
- FanAssembly^L
- FanDiameter^L
- FanPressure^L
- FrequentStartStop^L
- HousingAssembly^L
- MotorAssembly^L
- MountingAssembly^L
- PartNumber^M
- SolidWorks^L
- SpecifiedSpeed^L
- SquareFlange^L
- VolumeFlowRate^L

1220

Application Fan Design

BuildingServicesFan: FanArea

Display Name *
Fan Area

System Name *
FanArea

Property Type *
Formula Driven

Data Type *
Double

Units
m^2(metres^2)

Category *
Requirements

Subscribed to

Description

Knowledge Source

Status
Released

Last Updated
GROGANlbrogan 8/22/2002 10:53:22 AM

Context

BuildingServicesFan

Formula

☐ Auto Revert ☐ Follow Part Number

If this\FanDiameter > 0 Then
 result = 3.141 * (this\FanDiameter / 2)^2
Else
 result = 0
Else

User Interface

Valid Values

When Changed

Database Constraint

Documentation

* Required

FIG. 12

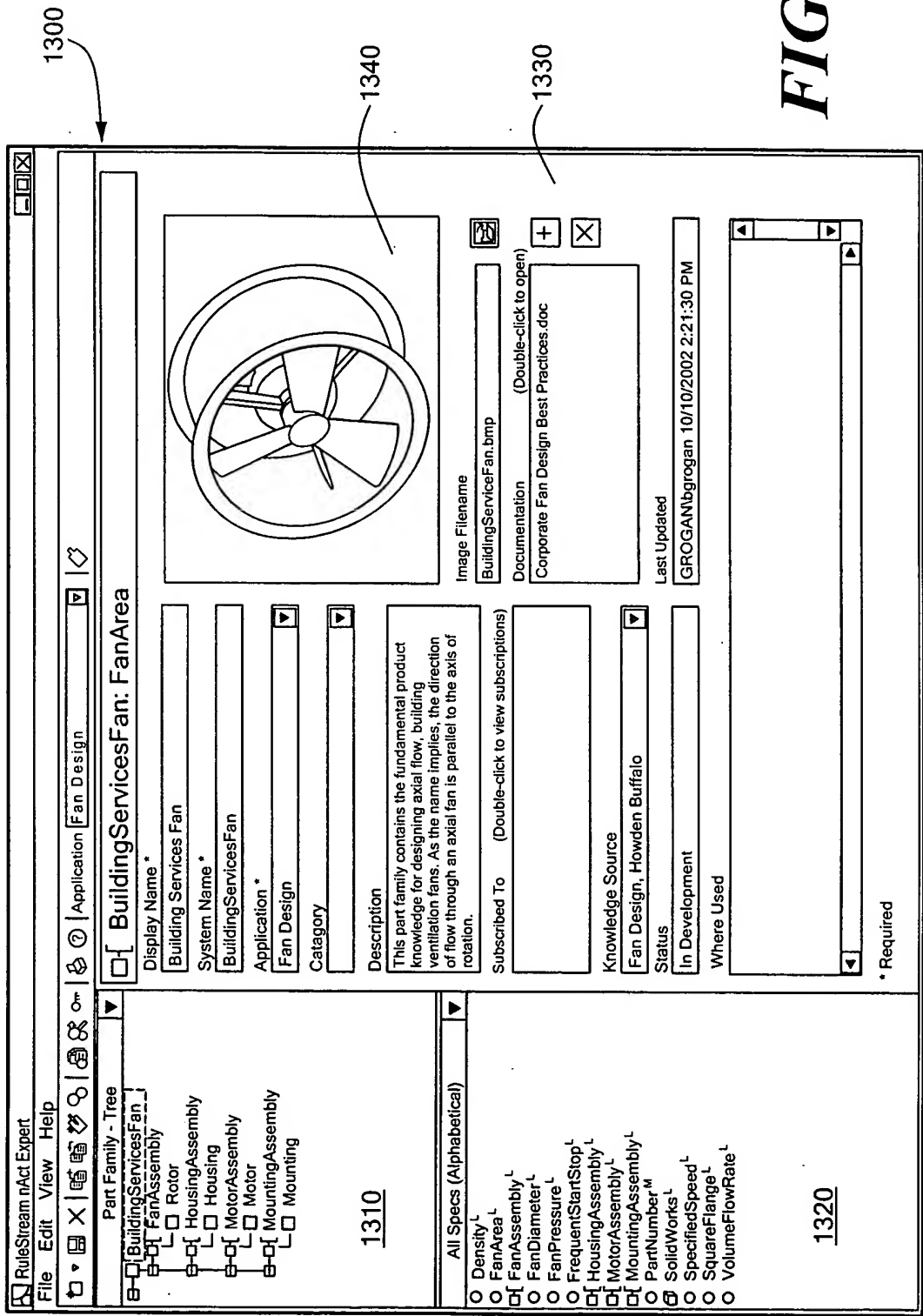
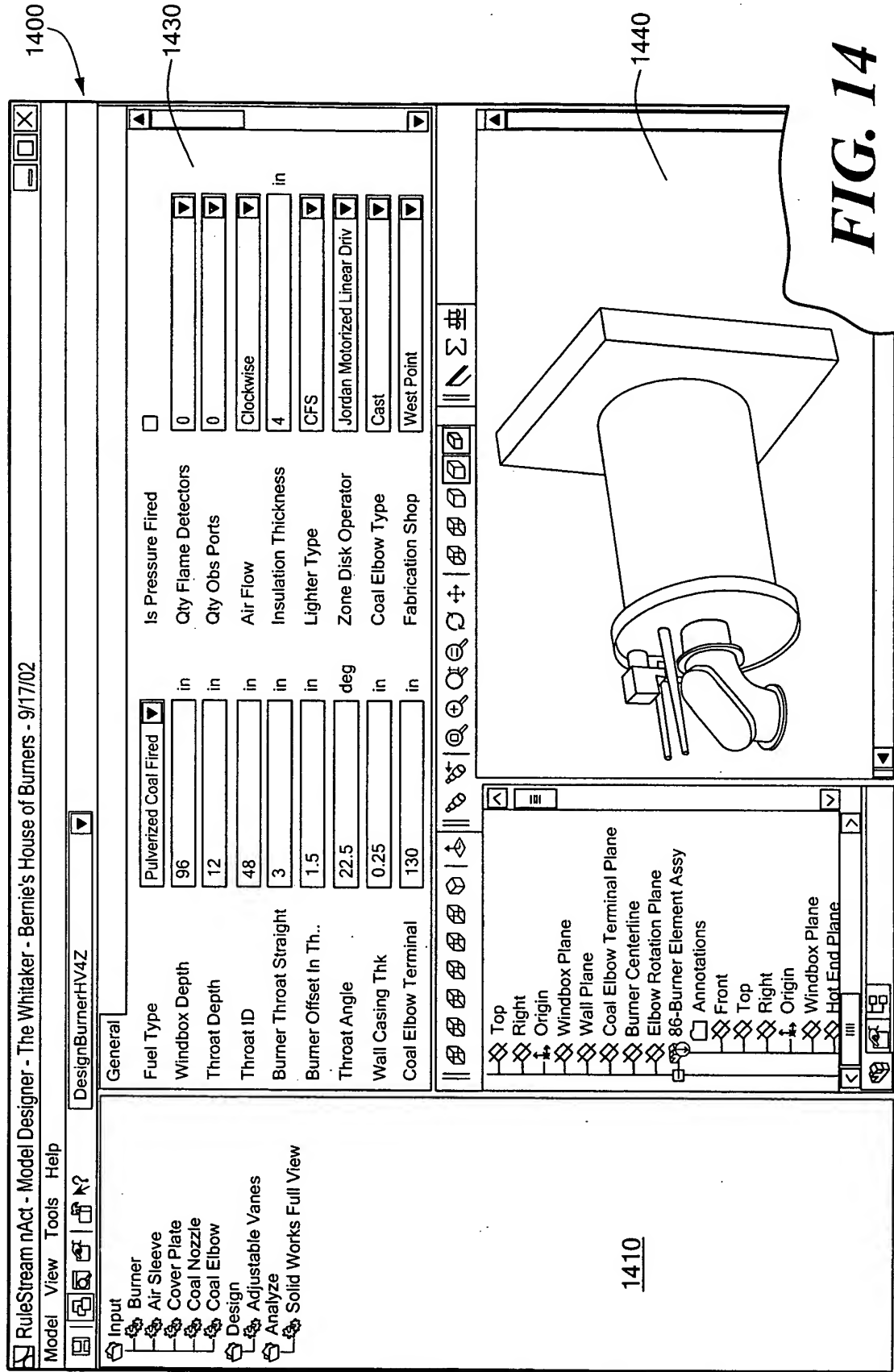


FIG. 13



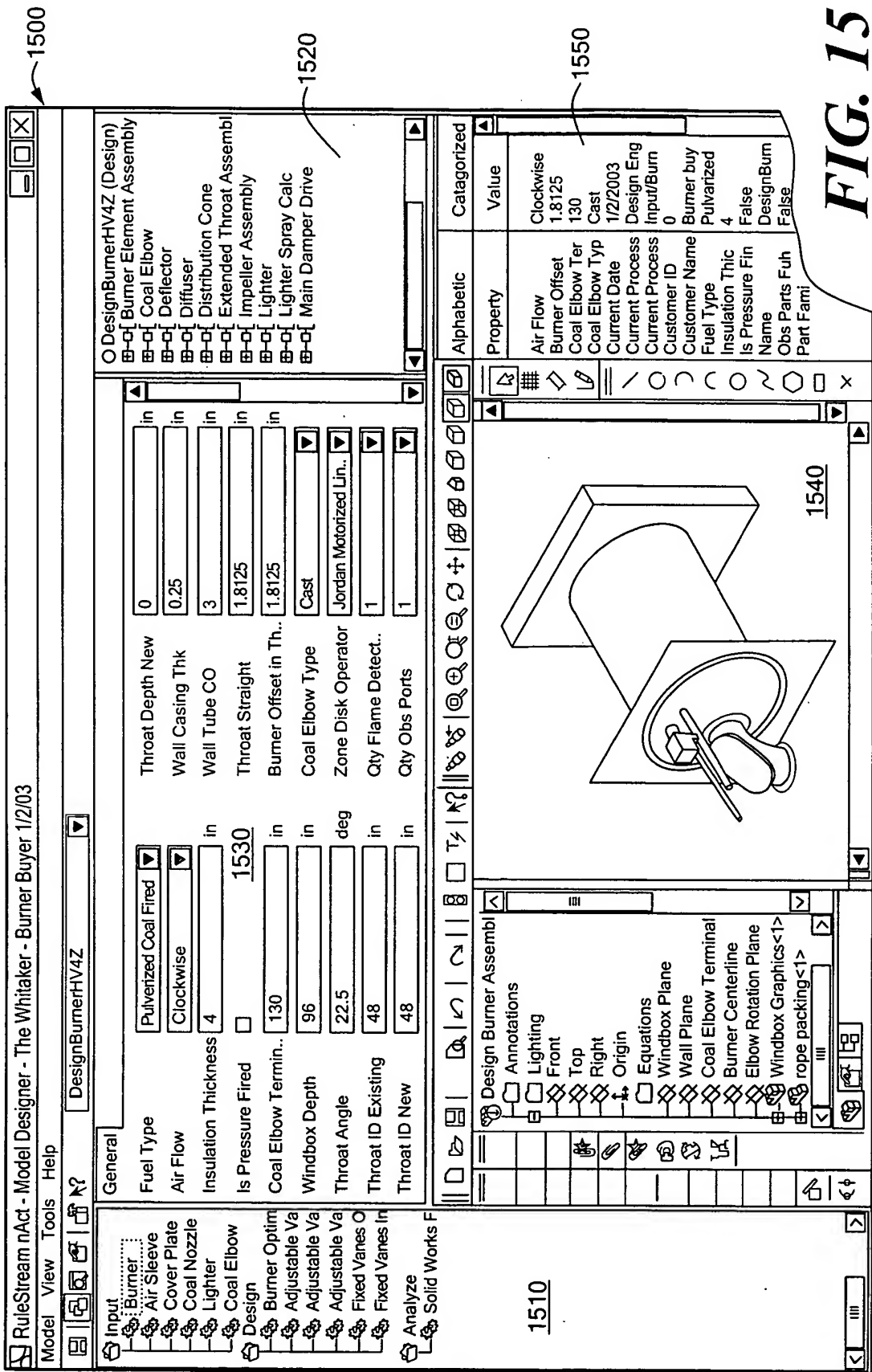
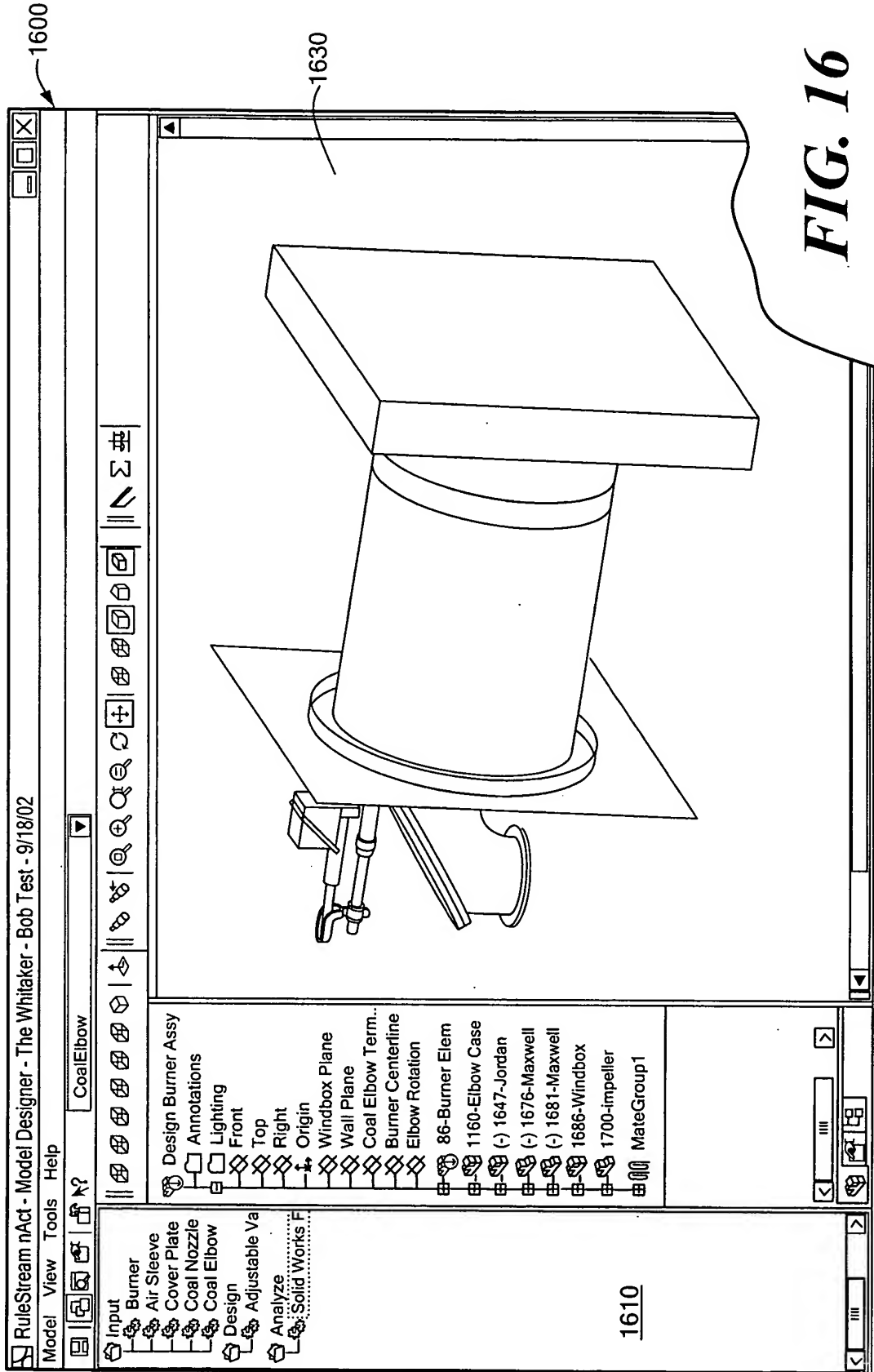
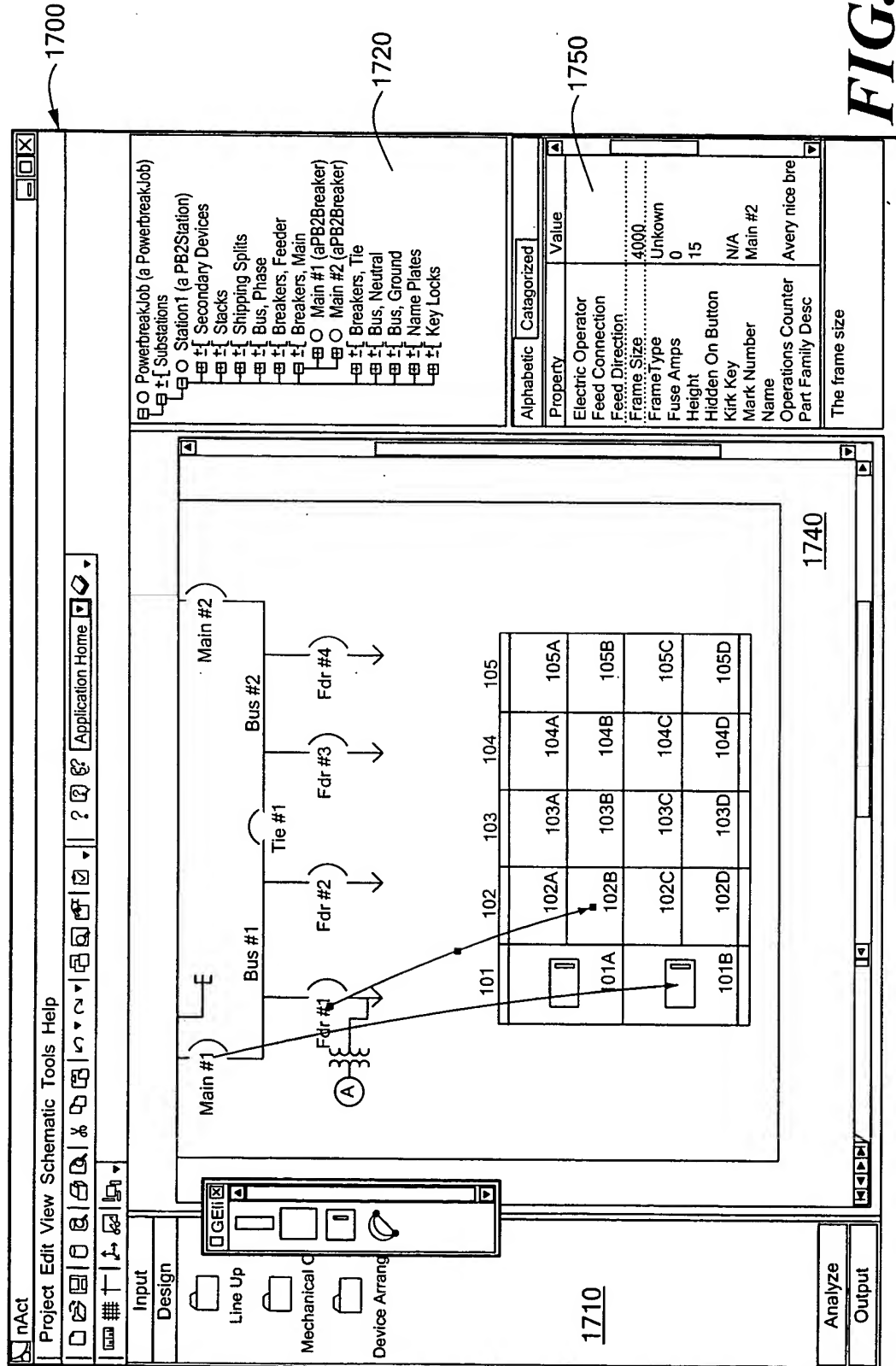
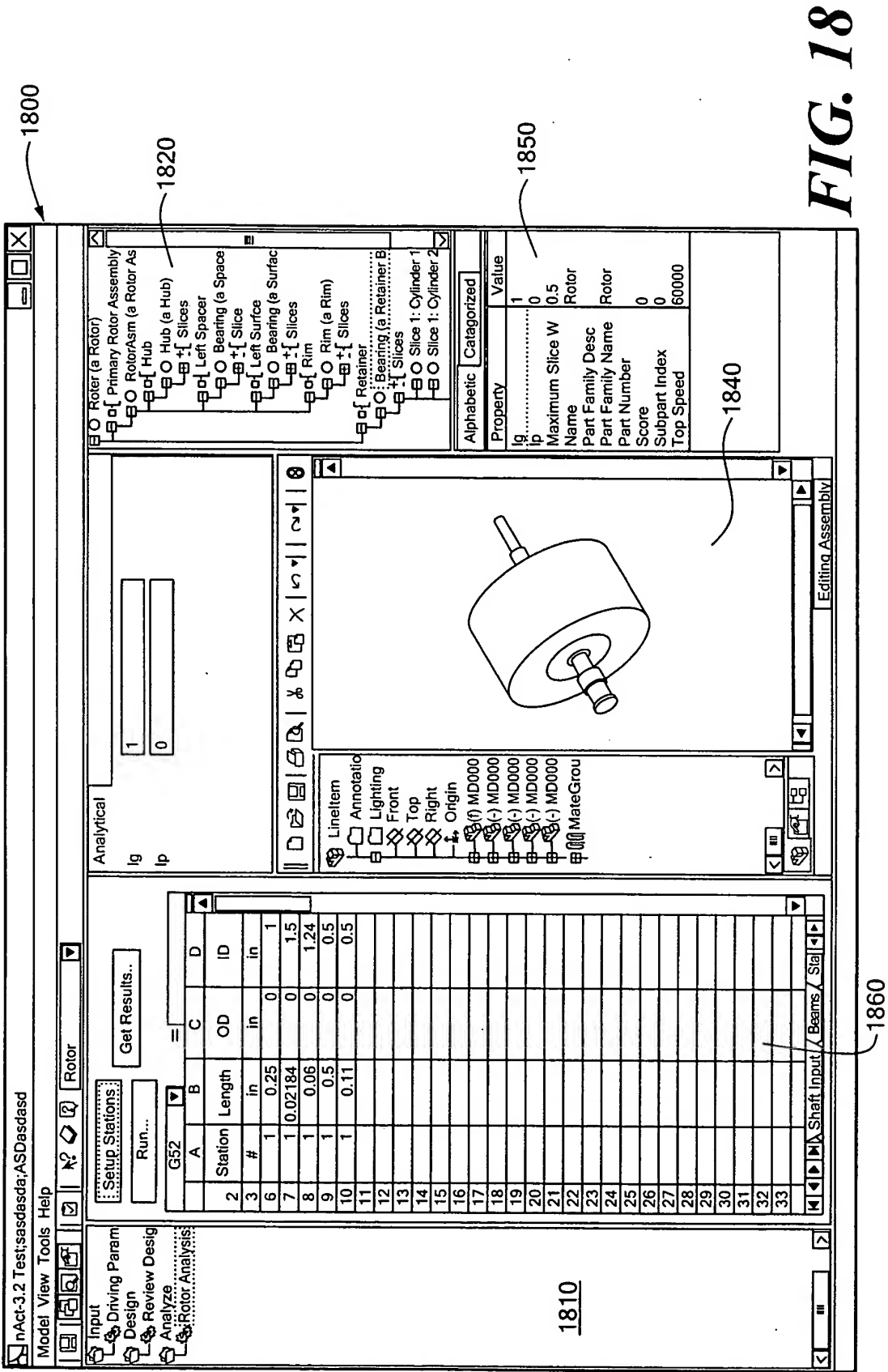


FIG. 15







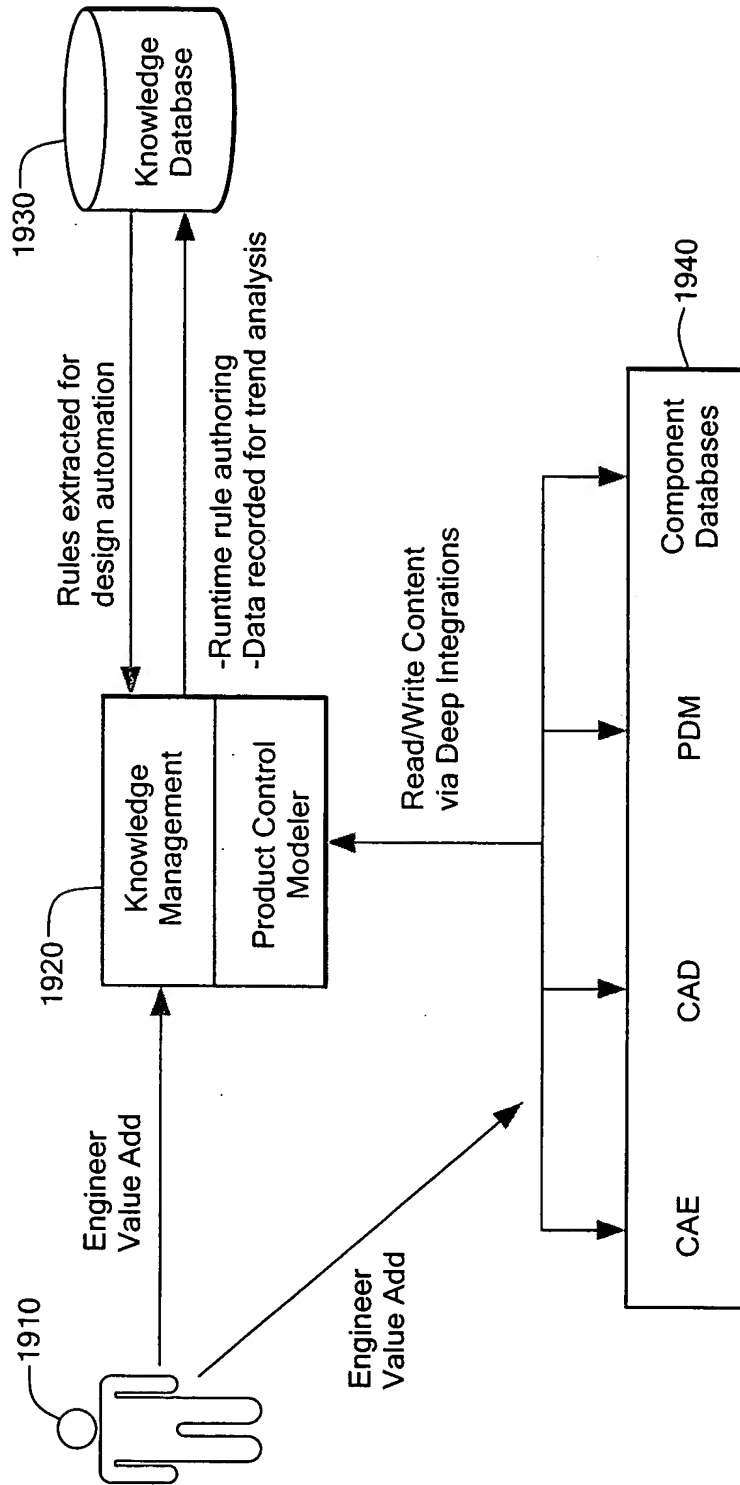


FIG. 19

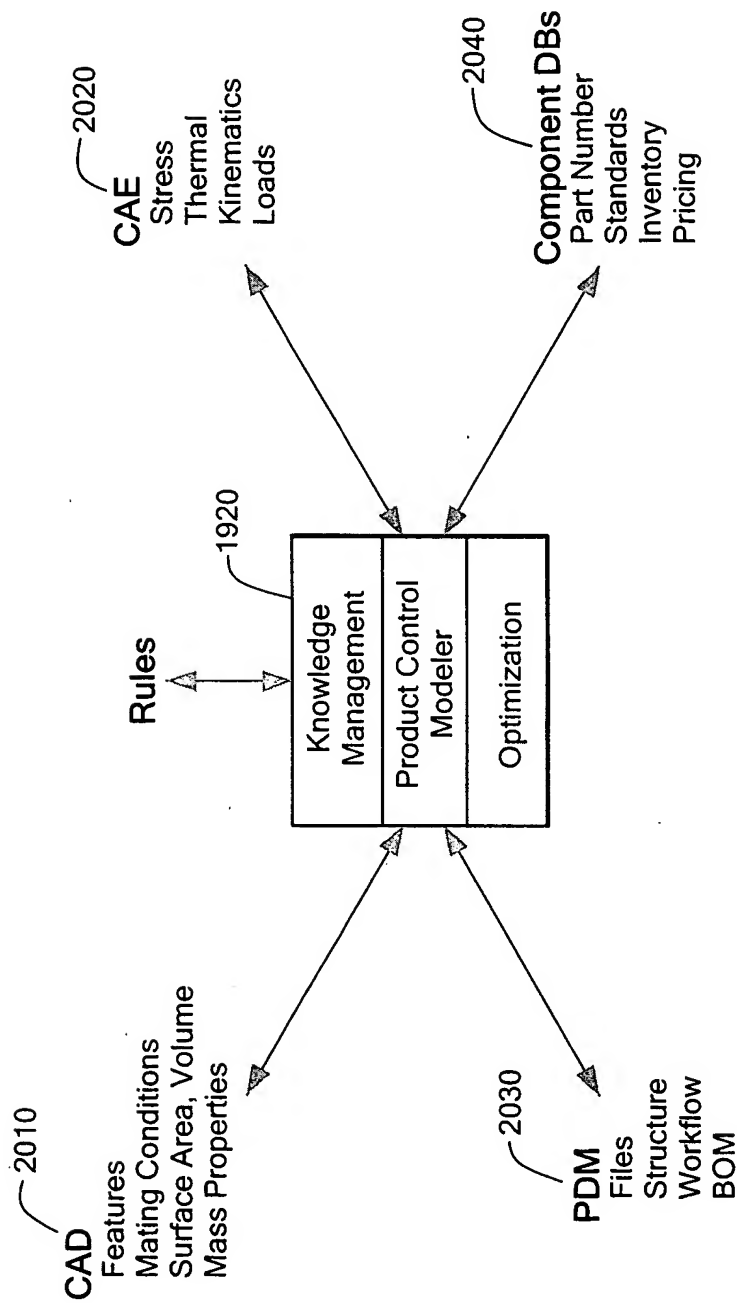


FIG. 20

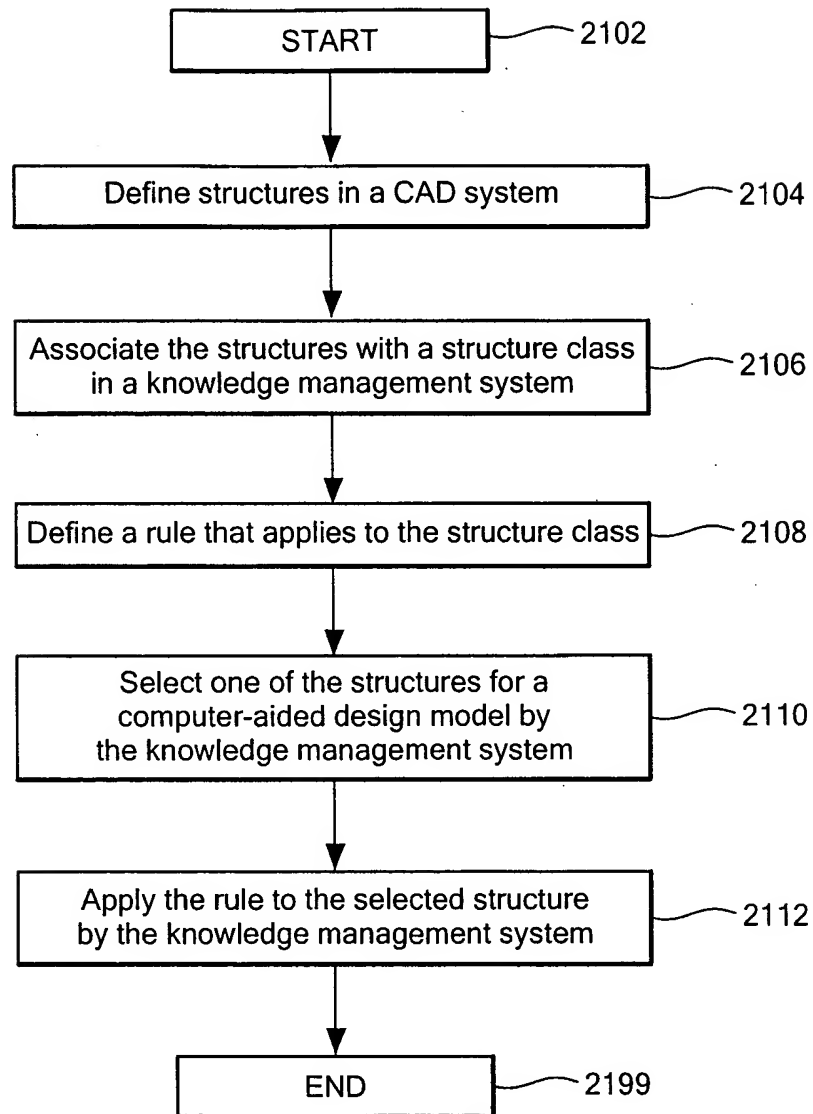
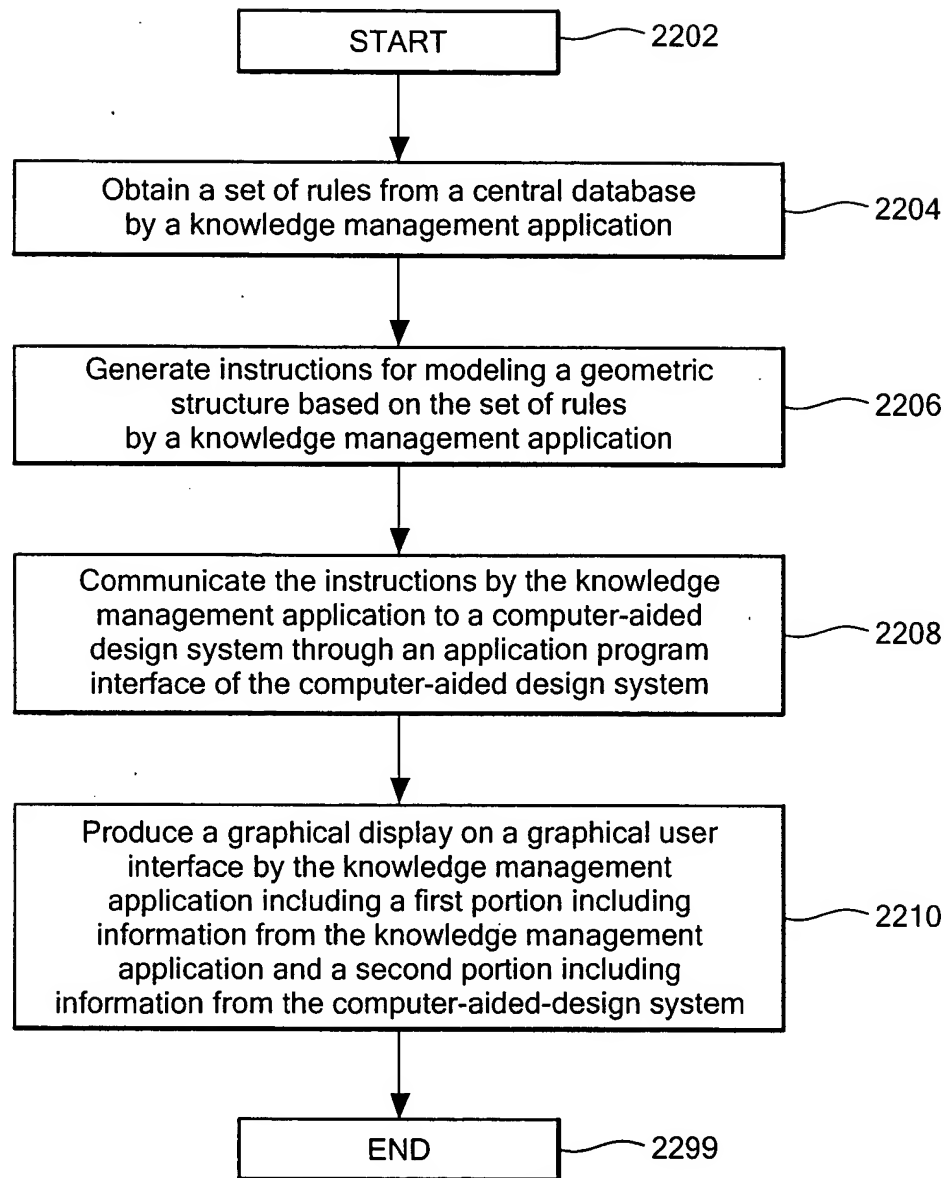


FIG. 21



2200

FIG. 22

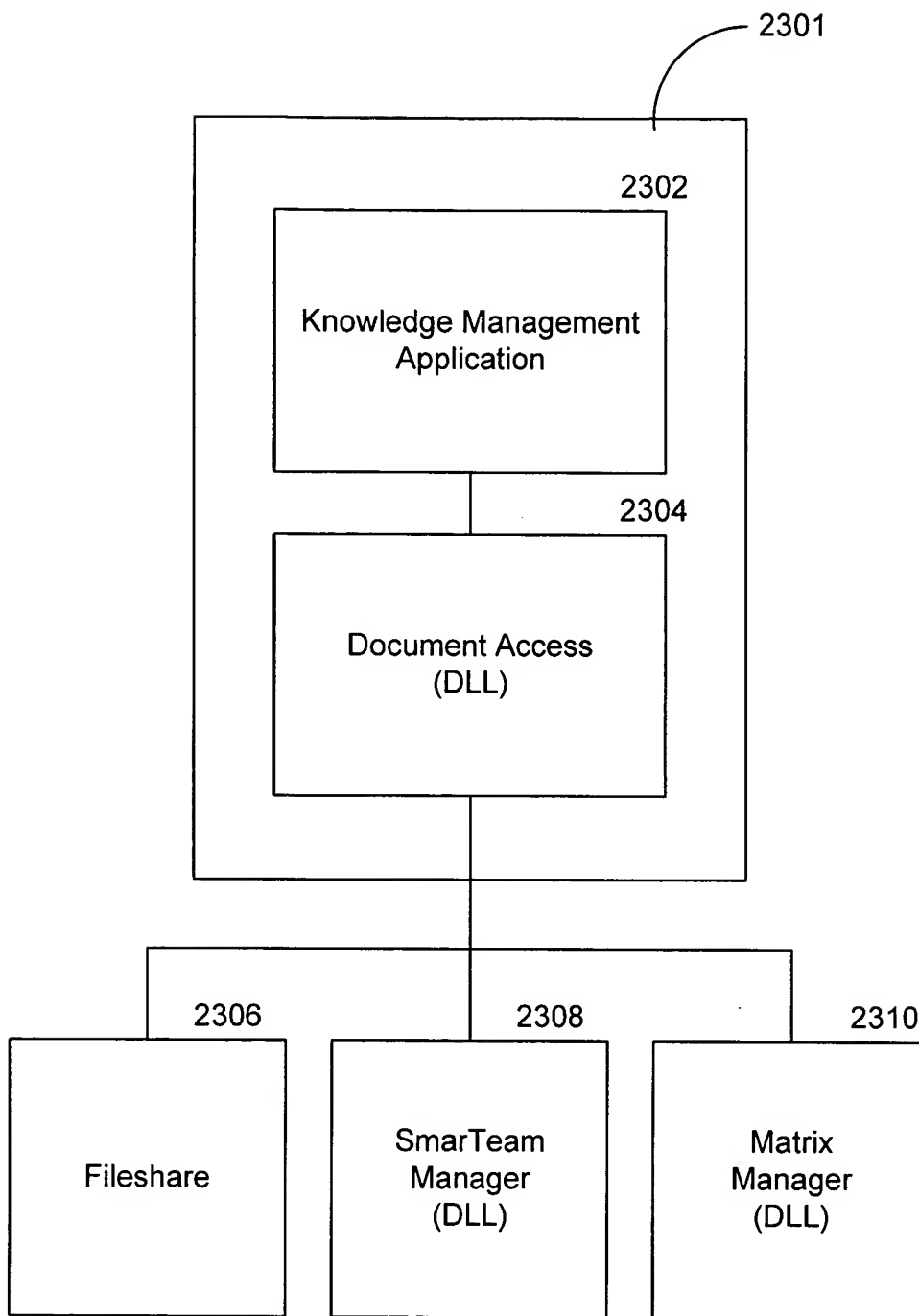


FIG. 23

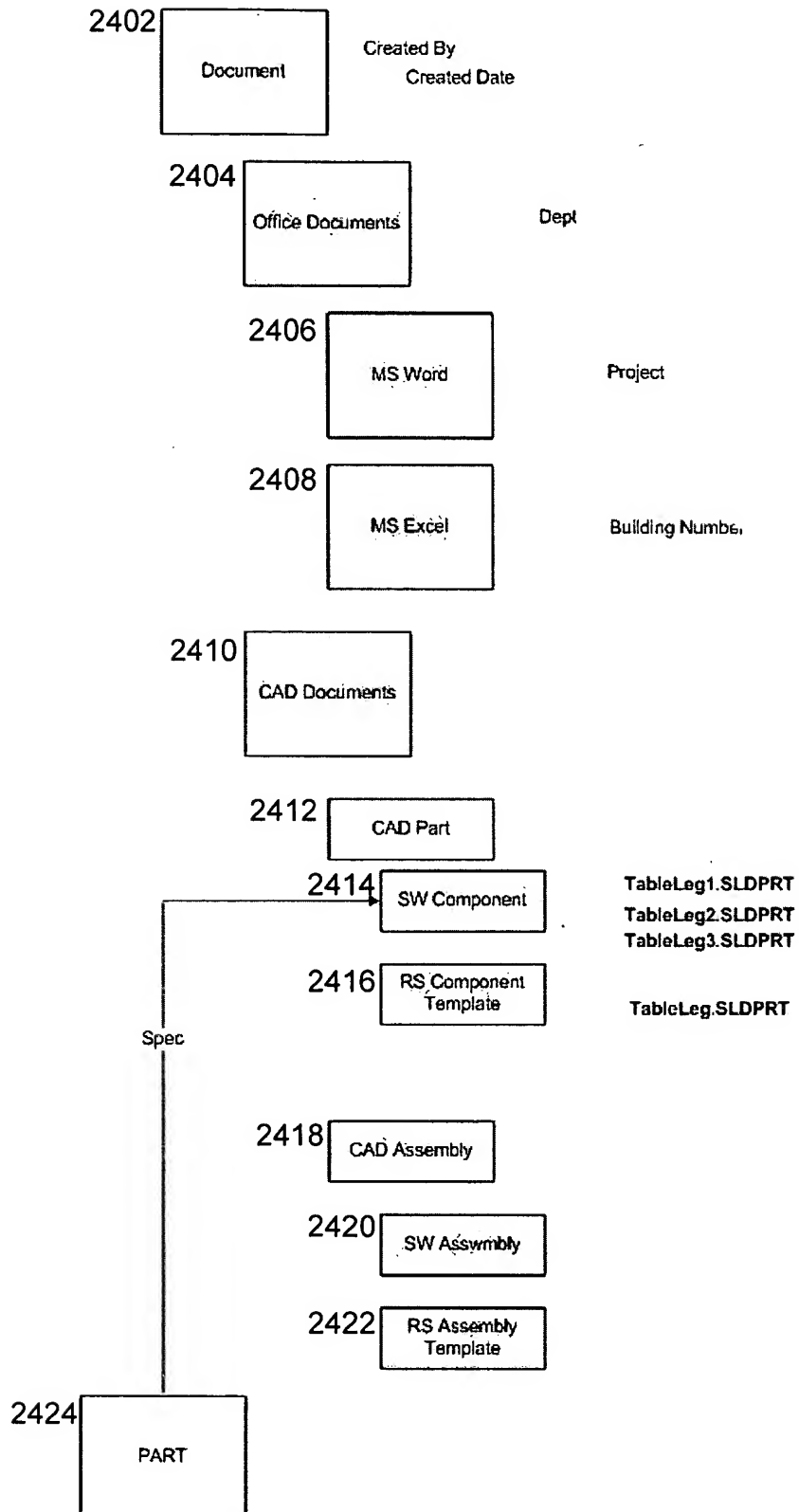


FIG. 24

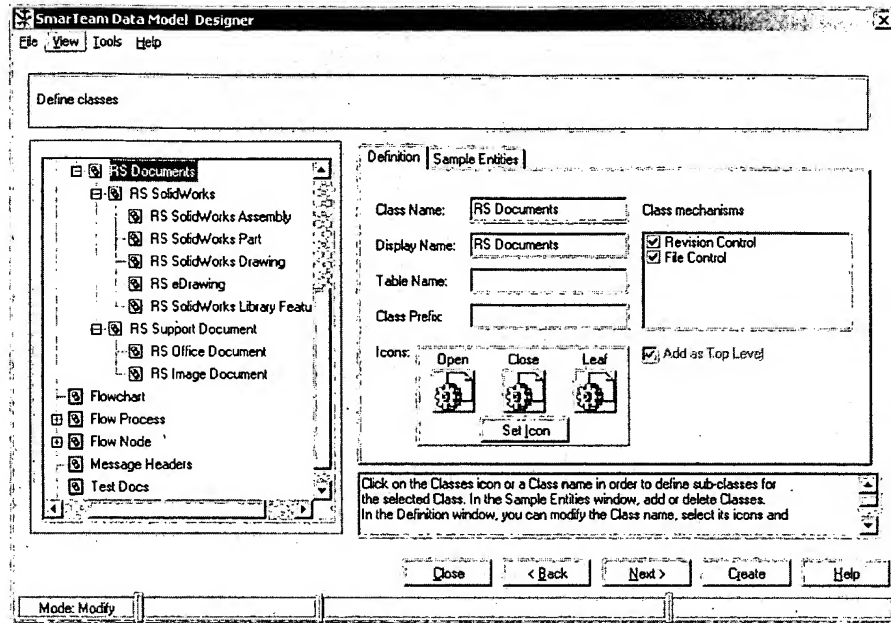


FIG. 25

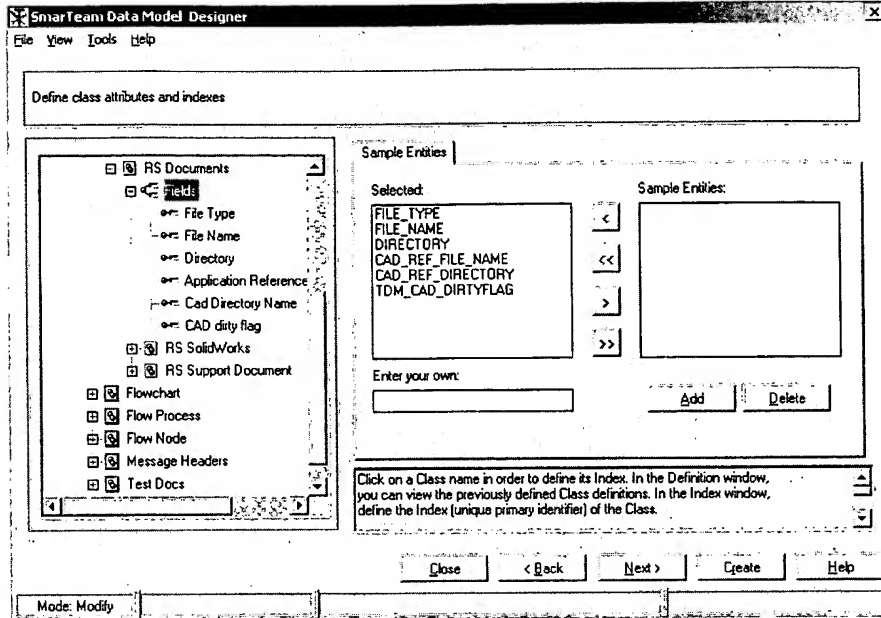


FIG. 26

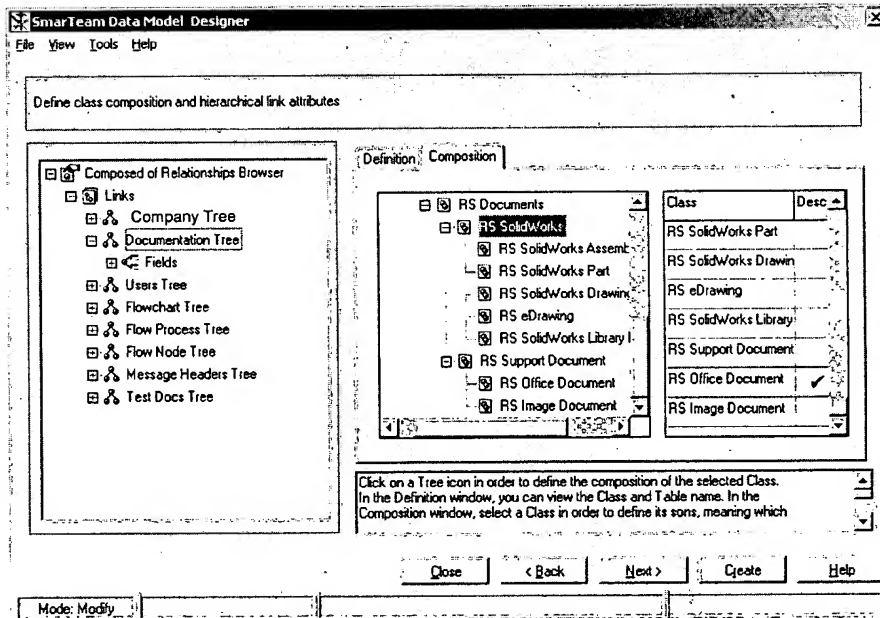


FIG. 27

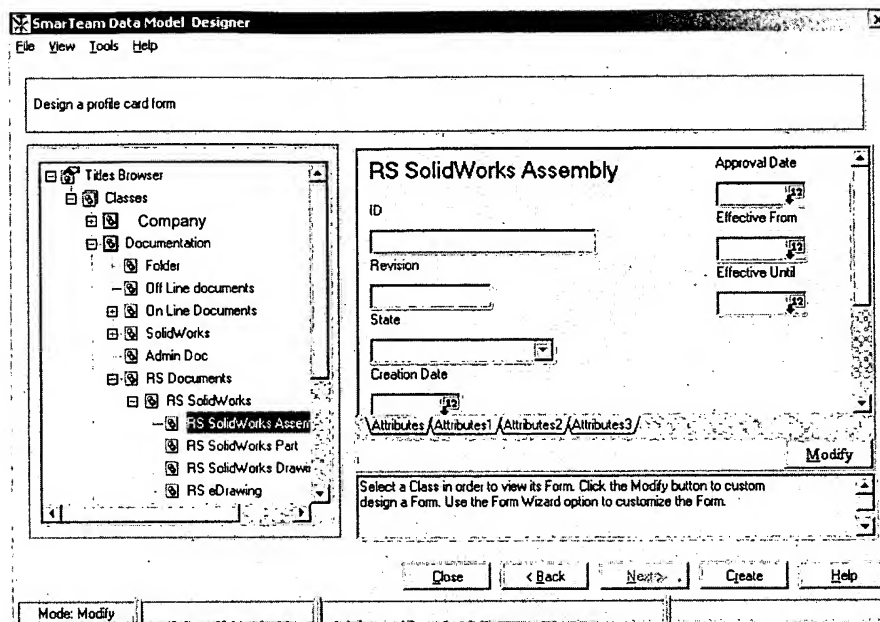


FIG. 28

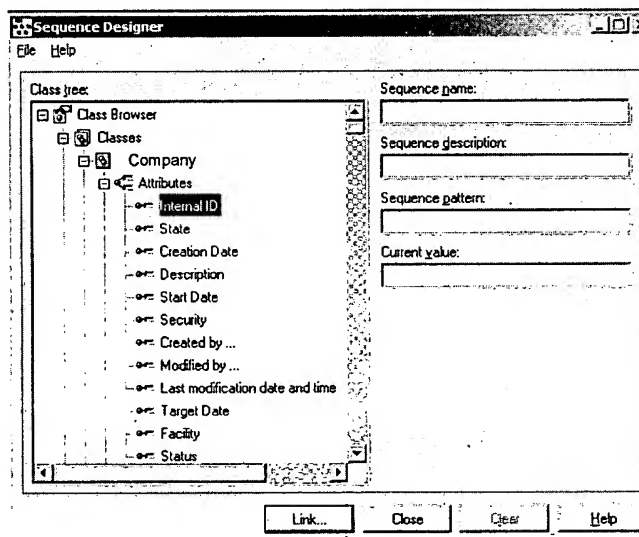


FIG. 29

Sequence Selection Dialog

Sequence Name	Description	Sequence Pattern
DCN_Number	DCN Number	DCN-03-9999
RuleStream Project		RS-99999999
RuleStream Docum		RS-DOCS-999999
REVISION_MASK		a.9.9
Project	Proj_id	99999999
Documentation	Documenta	99999999
Customer	Customers	99999999
Part_num	Part_num	99999999
Company Class	Overall Counter	Company 9999
Document Class		DOCS-99999999
Flow Process		FLOW-999999

Buttons: Edit..., New..., Delete...

Buttons: Select, Close, Help

FIG. 30

Edit Sequences

Mask Info | Pattern Info

Sequence name: RuleStream Document

Sequence description:

Sequence pattern: RS-DOCS-99999999

Check Pattern

Sequence value: RS-DOCS-00000006

Set Increment Check Value

☐ Revision mode

Separator: Group:

☐ Add site prefix

OK Cancel Help

FIG. 31

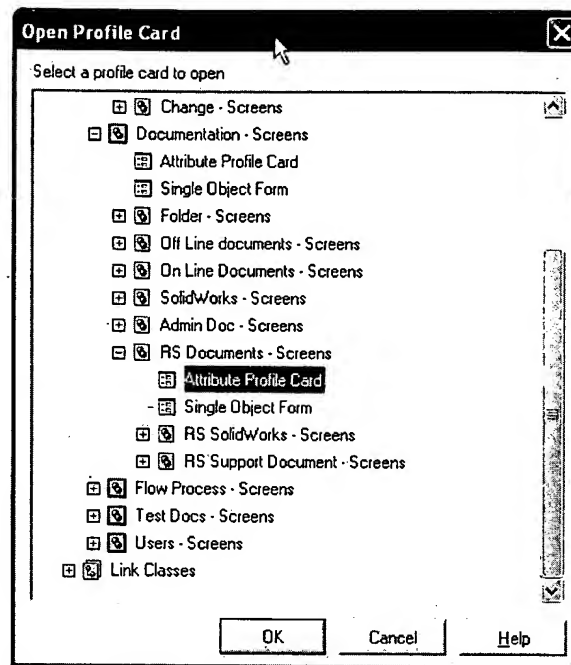


FIG. 32

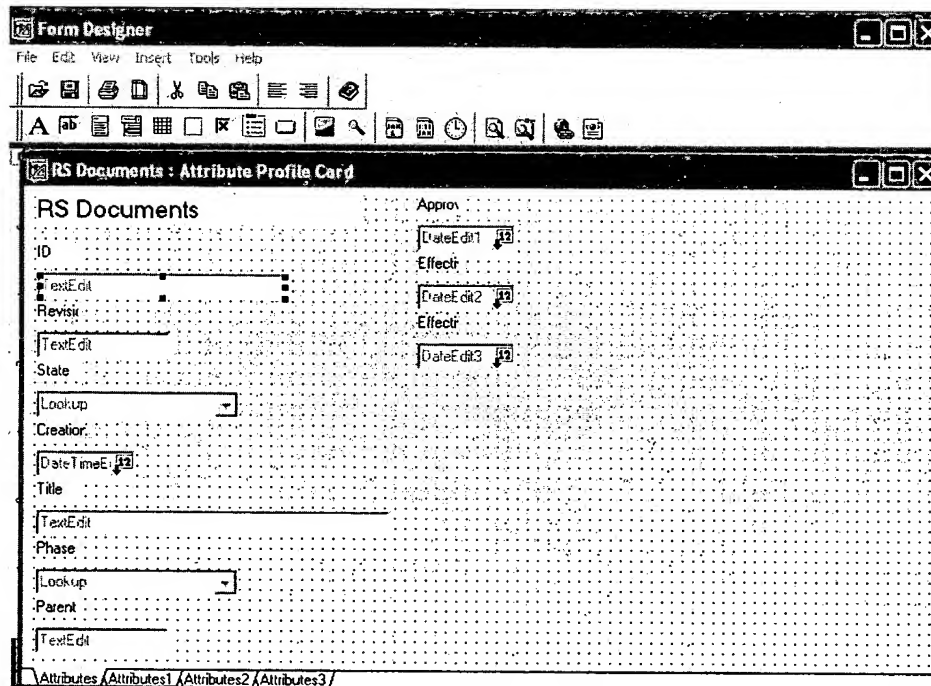


FIG. 33

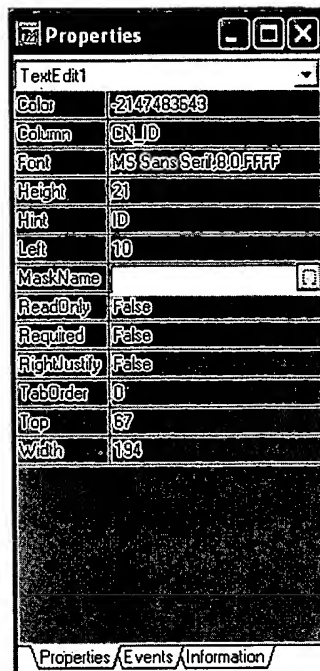


FIG. 34

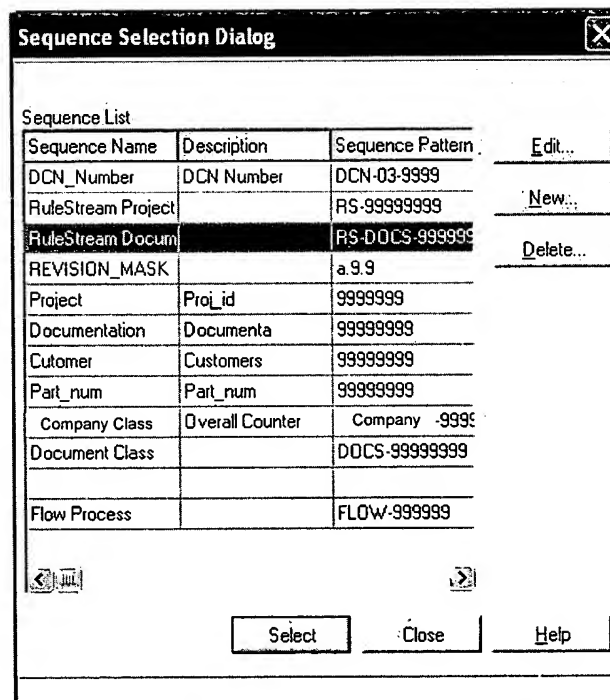


FIG. 35

Profile Card Links Notes Revision Viewer	
SolidWorks Assembly	
Part Number	1" TEMPLATE TEST ACTUATOR
Revision	-0
Title	1" TEST ACTUATOR ASSEMBLY
Description	ACTUATOR WITH NO INTERNALS
Facility	WILLOUGHBY #1 - 2101
Activity Center	New Product Development
State	New
Phase	Preliminary Design
Security	Medium
Assembly Type	Full View
Configuration	Default
<div>End Connections</div> <div>None</div> <div>Add/Edit None</div>	
<div>Attributes Model Info File Info Revision Info Gen Info</div>	

FIG. 36

Profile Card Links Notes Revision Viewer	
SolidWorks Part	
Part Number	ALLOY-1-31S4
Revision	C
Title	31 SERIES BODY
Description	
Facility	HIGHLAND - 2201
Activity Center	Drafting
State	Released
Phase	Production
Security	Medium
Part Type	Body
Configuration	ALLOY-1-31S4
<div>End Connections</div> <div>1/4" Company (2)</div> <div>Add/Edit None</div>	
<div>Attributes Model Info File Info Revision Info Gen Info</div>	

FIG. 37

Profile Card | Links | Notes | Revision | Viewer

SolidWorks Drawing

Part Number	3-31R
Revision	B
Title	31 SERIES STEM
Description	
Facility	HIGHLAND - 2201
Activity Center	Drafting
State	Released
Phase	Production
Security	Medium
Drawing Type	Manufacturing

End Connections
None

Add/EditNone

Attributes | Model Info | File Info | Revision Info | Gen Info

FIG. 38

Company Document

Title	
Description	
Revision	
Facility	
Activity Center	
Document Type	
State	
Security	

Attributes | Attributes1 | Attributes2

FIG. 39

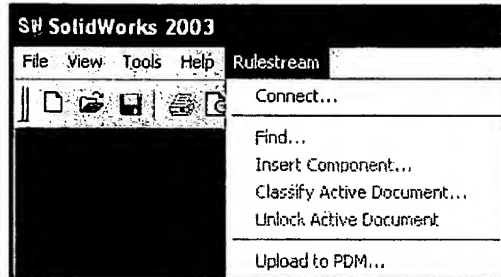


FIG. 40

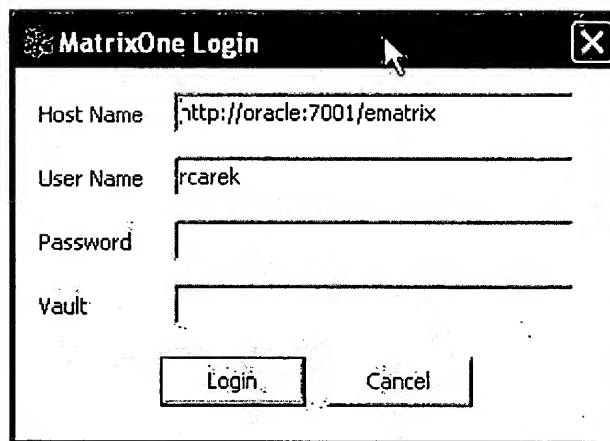


FIG. 41

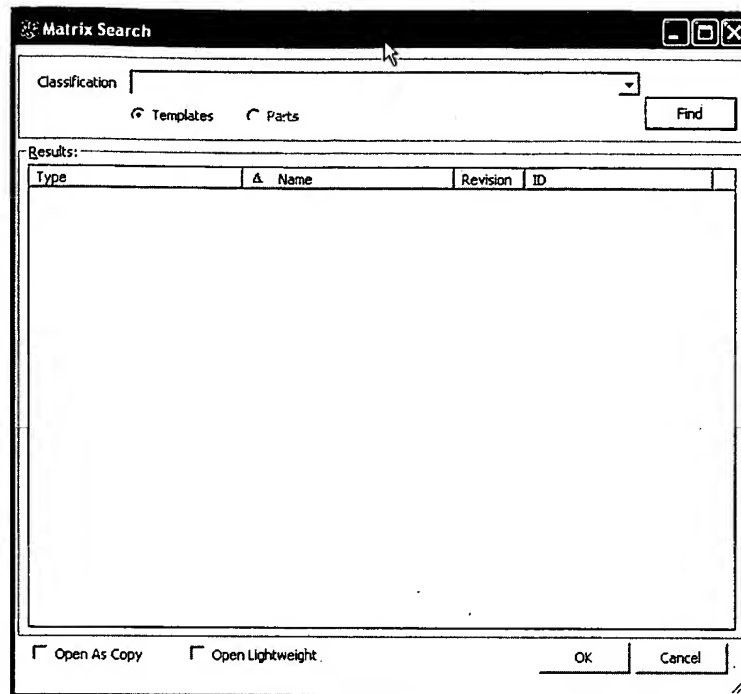


FIG. 42

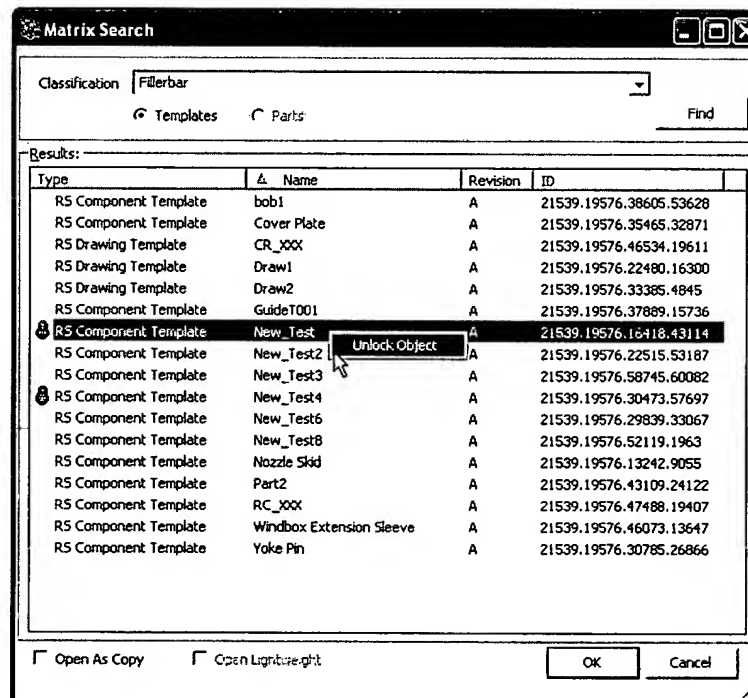


FIG. 43

Classify Active Document - part_xx.SLDPRT

Classification

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research

Research Relationships

Relationship	Type

FIG. 44

Classify Active Document - part_xx.SLDPRT

Classification

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research
Application		<input checked="" type="checkbox"/>
Application		<input checked="" type="checkbox"/>
Area		<input checked="" type="checkbox"/>
Center To Center		<input checked="" type="checkbox"/>
Class Type		<input checked="" type="checkbox"/>
Commodity Code	1234	<input checked="" type="checkbox"/>
Customs Harmonized Code	CHCF1234	<input checked="" type="checkbox"/>
Diameter - Outside Tube		<input checked="" type="checkbox"/>
Die	NO	<input checked="" type="checkbox"/>
Die Number		<input checked="" type="checkbox"/>
Drawing Template		<input checked="" type="checkbox"/>
E Text		<input checked="" type="checkbox"/>
Gauge		<input checked="" type="checkbox"/>
Item Type		<input checked="" type="checkbox"/>
Item Type		<input checked="" type="checkbox"/>
Length		<input checked="" type="checkbox"/>
Length		<input checked="" type="checkbox"/>

Research Relationships

Relationship	Type

FIG. 45

Classify Active Document - New_Test.SLDPRT

Classification
Fillerbar

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research
Application		<input checked="" type="checkbox"/>
Center To Center		<input type="checkbox"/>
Class Type	Single	<input checked="" type="checkbox"/>
Commodity Code	1234	<input checked="" type="checkbox"/>
Customs Harmonized Code	Fillerbar Customs Harmonized Code	<input checked="" type="checkbox"/>
Diameter - Outside Tube		<input type="checkbox"/>
Die		<input type="checkbox"/>
Die Number		<input type="checkbox"/>
Item Type	Commercial Assembly	<input checked="" type="checkbox"/>
Length	Commercial Assembly	<input checked="" type="checkbox"/>
Material Code	Commercial Piece Part	<input checked="" type="checkbox"/>
Number Of Tubes	Fabricated Assembly	<input type="checkbox"/>
Thickness	Fabricated Piece Part	<input type="checkbox"/>
Thickness - Gauge	Cast	<input type="checkbox"/>
Tool Location	Raw Material	<input type="checkbox"/>
Tool Number		<input type="checkbox"/>

Research Relationships

Relationship	Type
EBOM	Actuator

Classify Cancel

FIG. 46

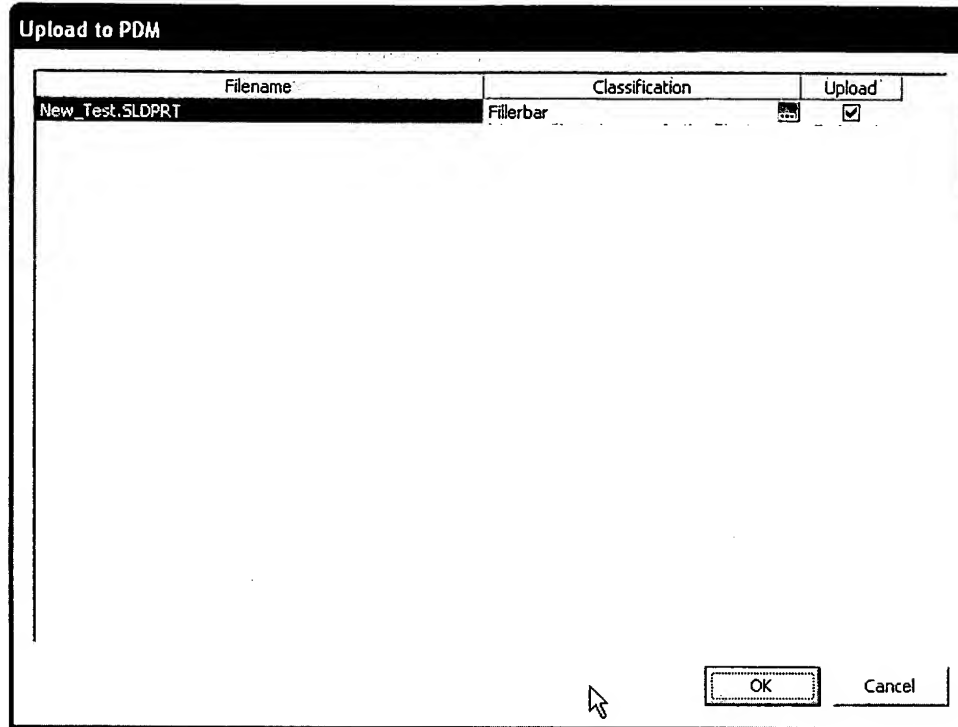


FIG. 47

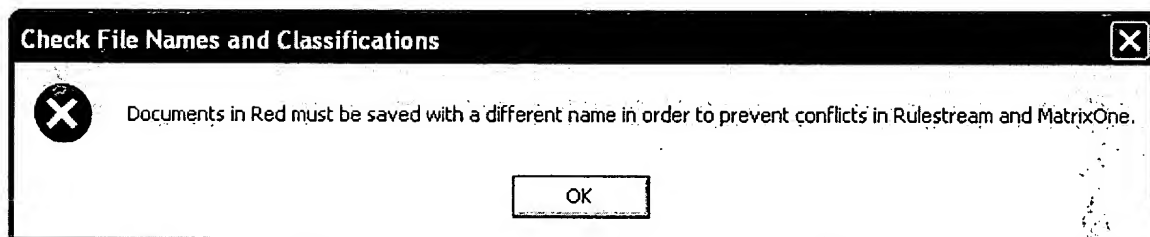


FIG. 48

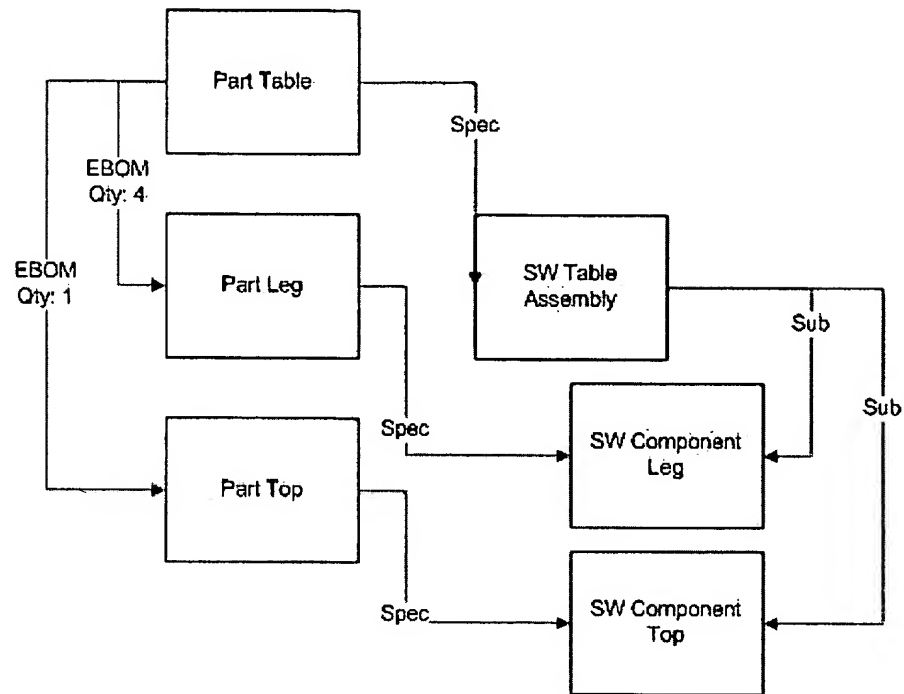


FIG. 49

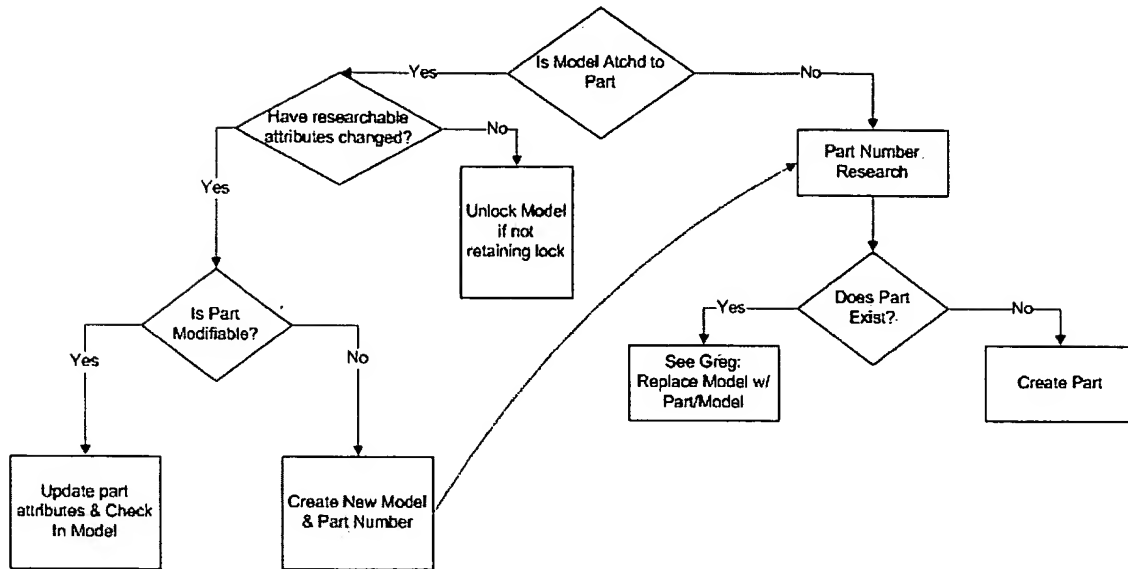


FIG. 50

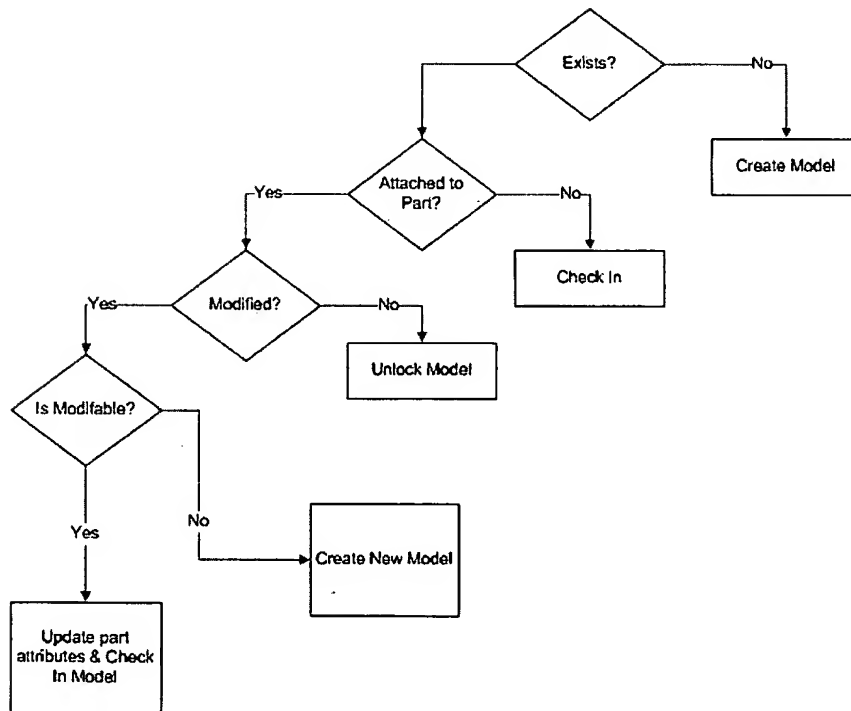


FIG. 51